

Fig. 1 Schematic Representation of the MOG Proteins

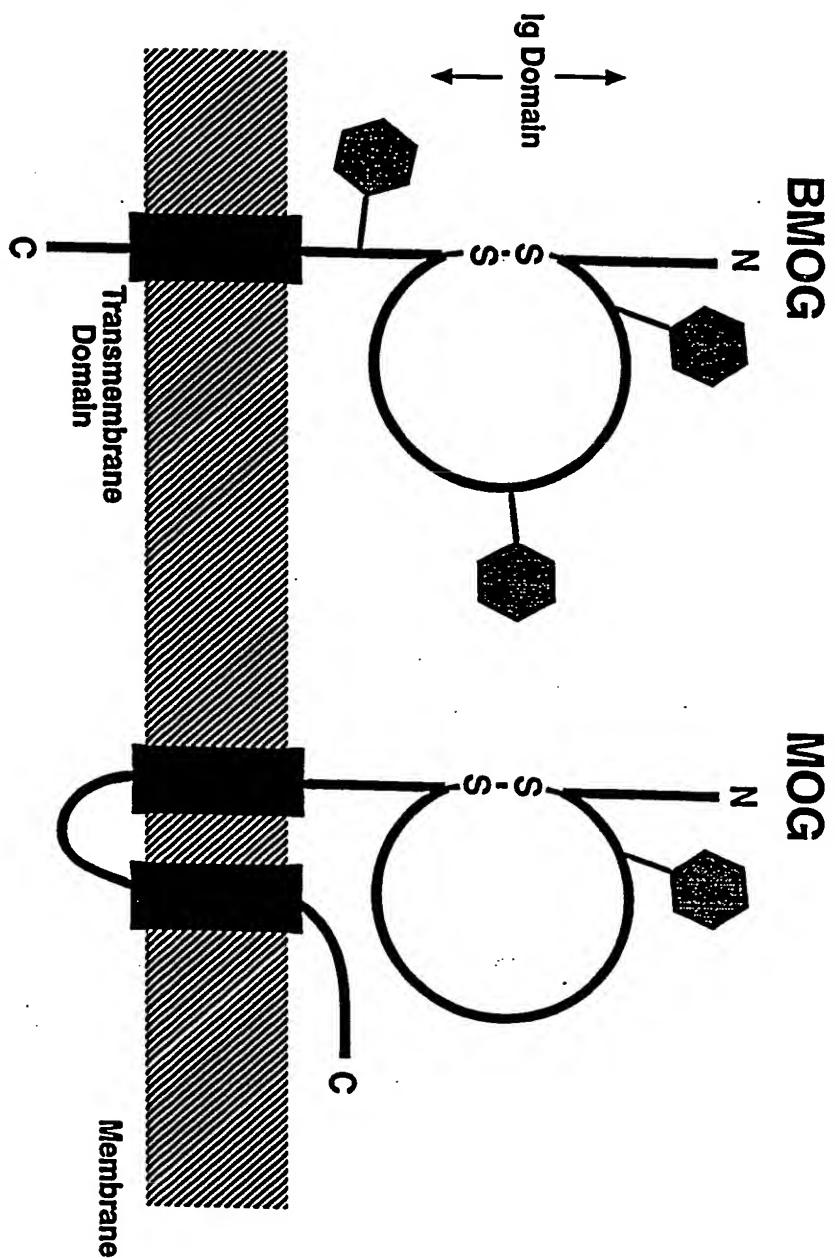


FIG. 1

EXPRESS MAIL
EV270263485US

Fig.2 Human BMOG Protein Structure

MAWMILLILIMVPGSCALWNSQPPERTEGSSAFLPCSFNASQGRLLAIGSVTWFREDEV
10 20 30 40 50 60
PGKEVRNGTPEFRGRLLAPLASSRFELHDHQAEHLHIRDVRGHDASTIVCRVELGLGVGTANG
70 80 90 100 110 120
|
TRLVWEKEHPOLGACTVLLIRAGFVAVSELIVAVGSTVYXHGK..
130 140 150 160
..CHCHMGTHCHSSDGPRGVVPEPRCP
..YAKSTLSGFQQL
..CLTWKGPRROLPAVVPAPLPPPCCGSSAHLIIPVPGG
170 180 190

Fig.3
Alignment of the First Extracellular Ig Domain of BMOG, MOG, Butyrophilin, B-G and B7

hu-1C7	MAWMLLILIMVHPGSCAL-----WSQSOPPEIRITLEGGSSAFLPC-----SFNASQGR
hu-MOG	MASLSRSPSLPSCILCSFLILLILQVSSSYAGQFRRVIGPRHPIRALVGDEVELPCRI----SPGKNAATC
rat-MOG	MAGVWSLSSLPSCLLSSLLL--QLRSYAGQFRRVIGPRHPIRALVGDEVELPCRI---SPGKNAATC
mo-MOG	MACLWSFSWPSCFSLSLILLLQUSCSYAGQFRRVIGPGYPIRALVGDEVELPCRI---SPGKNAATC
ch B-G	MAFTSGCQNHPSFTLWRTTLPPYLVALHLQFGSAQITVAPSLRV-----ATVGQDVVLRCHL---SPCKDVRN
hu-Bu	MASSLAFTLNFHVSLLIVQLLTPC---SAQFSTVIGPSGPILAMVGEDADLPCHL---FPTMSAET
bov-Bu	MAVFPNSCLAGCLLIFILLQLPKLD---SAPFDVIGPPEPILAVVGEDAEELPCRL---SPNVSAKG
hu-B7-1	MGHTTROQTSPSKQCPYTFNFFQOLLVLAGLSHFCSSGVIVHVKEVKEVATLSCGH-NVSVEELAQ
hu-B7-2	MGLSNLTFWMAFLLSGAAPLKRQAYFNETADLPCQFANSQNSLSE
hu-1C7	LAIGSVTWFR-DEWVPGKEVRNGT-----PEFRGRILAPASSRFHDHQAEHLHRDVDRVGRHDASIYVC
hu-MOG	MEVG---WYRPPFSRVVHLYRNGKDQDGDAEQAPEYRGR-TELLKDAIGEGKV-TLRINVRFSDEGGFTC
rat-MOG	MEVG---WYRPPFSRVVHLYRNGKDQDGDAEQAPEYRGR-TELLKESIIGEGKVA-LRIONVRFSDEGGYTC
mo-MOG	SEVG---WYRPPFSRVVHLYRNGKDQDGDAEQAPEYRGR-TELLKESIIGEGKVA-LRIONVRFSDEGGYTC
ch B-G	SDIR---WIQRSSRLVHHRNGVDL--GOMEVKGR-TELLRDGLSDGNLD-LRITAVTSSSDGSYSC
hu-Bu	MELK---WVSSLRQVNVYADGKEVEDROSAPTRGR-TSILRDGITAGKAA-LRHNTVASDSGQLEC
bov-Bu	MELR---WFREREKVSAPAVFSREGQEQEGEEMAERYRGR-VSIVEDHIAEGSVA-VRIQEVRASDGEYRC
hu-B7-1	TRIV---WQ-KEKKOMLTMM-SGDMN---IMPEYKNR-TIF---DITN---NLSTIVLALRPSDEGTVEC
hu-B7-2	LIVF---WQ-DQENLVNEVTLGKEKFDSVHSKVMGR-TSF---D-SD---SWTLRLHLNLQIKDKGLYQC
hu-1C7	RVELGLGVTGNGTRLWVEKEHPOLGAGTVILLRAGEYAVSELSVAVGSTWY
hu-MOG	FFRDHSYQEEAAME-LKVEDPEXWSPGVVLVLLAVLEVLLQITVGLVLECL
rat-MOG	FFRDHSYQEEAAME-LKVEDPEXWNTNGVLLTALVEMMILLOVSVGLVLEEL
mo-MOG	FFRDHSYQEEAAME-LKVEDPEXWNTNGVTT-TANVPTLLOWSVGLVLEEL
hu-Bu	(second Ig domain)
bov-Bu	(second Ig domain)
hu-B7-1	(second Ig domain)
hu-B7-2	(second Ig domain)

FIG. 4

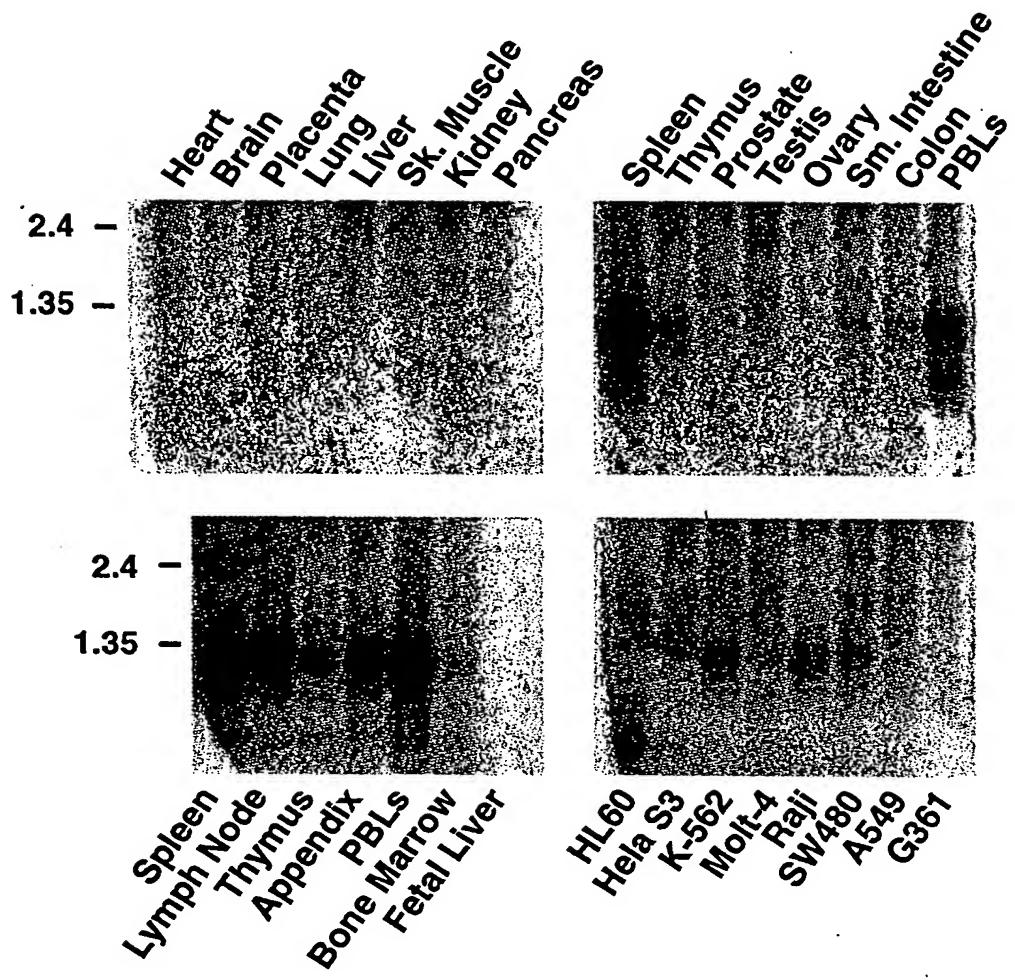


FIG. 5

